

# YOUTH WORKFORCE DEVELOPMENT

M A G N E

**CAREERS  
OF THE FUTURE**

**GREEN  
JOBS**

**GET EDUCATED  
GET EXPERIENCED  
GET EMPLOYED**



## On the Cover:

Liliana Burgos illustrates her limitless career options after a study session.



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# CONSTRUCTING

## MY CAREER

By Johnny Romero



**C**onstruction is a process that consists of the building or assembling of structures and infrastructure. This job is very tedious and requires physical strength. Many of the techniques or skills are acquired on the job. Construction workers have to work with a variety of tools and must learn how to use them. Construction trades workers include journey, master, apprentice craft workers, construction laborers and construction managers. Types of construction projects include dams, bridges, houses, apartments, factories, office buildings, schools, and roads.

**Construction is divided into three major segments.**

The construction of buildings includes contractors, formally known as general contractors, who build residential, industrial, commercial, and other forms of infrastructure. Heavy and civil engineering construction contractors build sewers, highways, tunnels, roads, bridges and other types of projects. Specialty trade contractors perform specialized activities such as carpentry,

painting, plumbing, and electrical work. Carpenters construct, install, or repair structures made of wood. Their job can also range from installing frame walls, partitions, doors and windows, building stairs, laying hardwood floors and hanging kitchen cabinets.

In 2002, the median hourly earnings in construction were \$11.90 per hour. The middle fifty percent of workers earned between \$9.33 and \$17.06. The lowest ten percent earned less than \$7.58, and the highest ten percent earned more than \$23.36. The median hourly earnings in 2006 were \$12.66. The middle fifty percent of workers earned between \$9.95 and \$17.31. The lowest ten percent earned less than \$8.16, and the highest ten percent earned more than \$24.19. In residential building construction the hourly pay in 2006 was \$12.82 per hour.

General construction includes an exceptional benefits package. This package offers comprehensive medical and dental insurance, short and long term income protection, one of the best 401(k) retirement plans, and an employee stock ownership program among other things. The hourly rate for this job is usually full-time with forty plus hours a week.

If this is the job for you, you must have at least a high school diploma or equivalent. Laborers for this job need hand-eye coordination, physical fitness, balance and the ability to work well as a member of a team. Solving arithmetic problems quickly and accurately may be required.



**“This job is very tedious and requires physical strength...**

**...Many of the techniques or skills are acquired on the job.”**



# Bussing It

by Abe Gutierrez

A vital part of any city's infrastructure is the public transit system. Present in Los Angeles, San Francisco, New York City, Long Beach, and practically every other big metropolitan city, a bus system has become a necessity for today's citizens. As students, the elderly, the disabled, and the Average Joe take advantage of this affordable means of transportation, the person driving the bus makes this all possible. These "Coach Operators" are the reason why this system works.

In order to obtain the position of Coach Operator for the Long Beach Transit, certain criteria must be met. First and foremost the applicant must be at least 21 years old, and have a strong and continuous work history. In addition, applicants must have an impeccable driving record with a Class "C" driver's license and a Class "B" training permit. Also, one must be able to speak sufficient English in order to converse successfully with riders. Coach Operator hopefuls must also have a clean record and are subject to random drug testing.

Although those are the formal qualifications, there are also many implied characteristics one must possess if they wish to be a Coach Operator.

By far the most important is patience. The elderly, handicapped, and students are frequent riders, and they often need special care, such as someone in a wheelchair needing assistance in boarding the bus and being strapped in.

The ability to deal with stressful situations can prove to be advantageous with this career. With riders being packed into the bus like sardines at times, the last thing anyone wants is to wait on someone with a wrinkled dollar that isn't being received by the machine. Riders can often be rowdy, especially in those aforementioned situations, so when the bus has people yelling at each other, the Coach Operator needs to be able to maintain concentration, calm the rowdy passengers if need be, and still provide superior service.

Being so demanding, this job also comes with substantial benefits. Salaries are based on seniority, with beginning drivers starting off at \$13.25 an hour, which increases year by year, culminating in a hefty \$24.09 per hour after eight years. Furthermore, Long Beach Transit provides medical, prescription, dental, vision, and life insurance to its employees.





**“People who cannot drive, for whatever reason, are completely dependent on this service.”**

Lastly, although many see this as just another government job, the service they provide is invaluable. Many students use public transportation as their chief means of transport to and from school. Without what has become affectionately known as the “public limo” among youth, it is likely that kids would no longer strive to go to better schools in a different area from where they live. Also, people who cannot drive, for whatever disability they might suffer, are completely dependent on this service. Every day, scores of people who cannot otherwise get from one place to another utilize this bus system to get to the hospital and places of major importance. It is clear that Coach Operators are a cornerstone in the mass that is public transit, and although it may be a difficult job, it is very much respected.



Source: Long Beach Transit





## A Desperate Need for Nurses

# NATIONWIDE

by Sharnell Brown

Across the United States, there is a need for thousands of nurses. Nurses are, in fact, the driving force behind the hospitals, for they promote health, prevent disease, and help patients cope with illness. They are the advocates and health instructors for patients, families, and communities as a whole. When bestowing direct patient care, they thoroughly monitor, assess, record data, and administer medications. However, you must carefully consider all of the aspects when deciding on the nursing job that is right for you.

### *The Nature of the Work*

Every day is different when you're a nurse. The fact that no two days are alike is one of the main attractions of the occupation for many people who love their nursing career. The job never becomes dull, boring, or routine, but more closely resembles an adrenaline rush. Although many nurses may see some of the same patients on a daily basis and do the same tasks every day, situations are always changing because of unpredictable human factors. Patients' conditions change, temperament alters, prognosis transforms, and procedures and medications vary – change is the one thing you can count on to never change.

Haven't decided which nursing position suits your interest? Well, these are just a few to help you make your decision. There are various types of nurses, including: Hospital Nurses, Office Nurses, Nursing Care, Facility Nurses, Home Health Nurses, Public Health Nurses, Occupational Health Nurses, and Head Nurses. At the advanced level, there are Nurse Practitioners, Clinical Nurse Specialists, Certified Registered Nurse Anesthetists, and Certified Nurse Midwives.

### *Working Conditions*

Most nurses work in a well-equipped, comfortable healthcare facility. Public and home health nurses travel to patients' homes, schools, and centers. As a nurse, you may be spending a considerable time walking around and standing. Nurses may work nights, weekends, and holidays based on the fact that patients in hospitals and nursing care facilities require around-the-clock care. RN's may be on call as well. Office, occupational health, and public health nurses are more likely to work regular business hours. With the job of nursing there are some hazards, thus there is a need to take caution, especially in hospitals. Clinics also deal with individuals with infectious diseases. Nurses must be familiar with protocol and examine rigid standardized guidelines to guard against disease and other perils.

### *How to Become a Nurse*

Anyone wishing to attend nursing school must have a high school diploma (or GED). If you're reading this and you're still in high school, you'll want to take some courses that will give you chances of acceptance into and success at nursing school. These include: Algebra, Biology, Chemistry, Anatomy, Psychology, and Physics, on top of the standard high school English classes. You'll need to earn the best grades you can in order to exhibit your propensity to handle the intense level of academic study needed to get through a nursing degree program, which is fairly arduous. In addition to the required classes and grade point average, nursing programs are looking for people with temperaments suited for nursing. Personality traits such as compassion, attention to detail, ability to think on your feet, ability to handle stress and maintain composure under difficult circumstances, and the emotional stability to cope with human suffering, emergencies, and other stressors are all part of the skills needed in a nursing career. The majority of nursing schools will require you to successfully pass an entrance exam that measures your aptitudes and likelihood of success in a nursing program and career.



## ***Nursing Demand***

Nursing is one of the most in-demand jobs in America. Simply pick up the “Help Wanted” section of the classified ads in the Sunday newspaper from any town or city, no matter how big or small. Presently, the shortage is somewhere between 100,000 and 150,000 nurses nationwide. According to nursingjobshelp.com, “Experts say that in less than 15 years, the situation will be so severe that 800,000 nursing positions across America will go unfilled.”

It’s essentially impossible to expect that the health care industry can fill all their open nursing jobs now, and more nurses are needed every year citywide. Hospitals and medical offices compete vigorously to hire nurses, and wages, benefits packages, and bonuses are increasing all the time. Due to the baby boomers reaching retirement age, people living with a longer life expectancy, and millions of additional people coming to America every year, it’s not problematical to see why nurses will continue to be in such demand. Thus, adept nurses don’t have to worry about being unemployed. If you’re looking for job security, there’s probably not a better career selection than nursing.

## ***Applying For Your Nursing Job***

When applying for your first nursing job, remember to be flexible and relentless in the hiring process. If you have your sights set on a specific nursing position within a hospital, you may have to take an alternative position and maneuver yourself into your dream nursing job. A word of advice: be patient. It may take some networking to really find the job that’s suitable for you. Always exhibit an encouraging attitude even though a recruiter or hospital may not need your services at any given time. However, a position may open up at any time. If you become uncouth or belligerent after receiving rejection news, remember that information does have a way of traveling. Make sure you have taken and passed the NCLEX exam and are in good standing with your state boards. Stay in contact with your old acquaintances and classmates because many of the best nursing job tips come from these individuals who know the hospitals and facilities in your site-specific region.

### ***This is a glance at what an RN earns:***

According to Bureau of Labor Statistics and Department of Labor, “median annual earnings of registered nurses were \$48,090 in 2002. The middle fifty percent earned between \$40,140 and \$57,490. The lowest ten percent earned less than \$33,970, and the highest ten percent earned more than \$69,679.”

You could be making these annual earnings as well. The information is all here in order to help you make a well-versed decision about attending nursing school and choosing nursing as an occupation. So take your time, and explore all the resources. You may just find out that a nursing career is right up your pathway. Good Luck!

*Sharnell will be attending San Diego State University in the Fall. She plans on becoming a Registered Nurse with a specialization in Pediatric Nursing.*



# TAKING CARE



BY LUCKY NARCISO

**T**he nursing career can be achieved by anyone with the right passion and determination to obtain a college degree. What do nurses deal with? They focus on the care of individuals, families, and communities in attaining, maintaining, and recovering optimal health and functioning. The various forms of nursing work are **Certified Nurse Assistant (CNA)**, **Registered Nurse (RN)**, **Licensed Practitioner Nurse (LVN or LPN)**, **Nurse Practitioner**, and **Nurse Anesthetist**.

Since there are different types of nursing jobs, each job performs different tasks. Certified Nurse Assistants alleviate the stress of the patients by providing assistance to their daily tasks through the supervision of a Registered Nurse. A Registered Nurse's responsibilities include providing treatments and educating patients about their various medical conditions, as well as providing advice and emotional support to patients and family members. Licensed Practical Nurses provide basic care such as analyzing the patient's important signs from their conditions, preparing and giving injections, and applying

dressings and ice packs. They also help their patients with their daily activities, personal hygiene, and some Licensed Practical Nurses help deliver and care for infants. Nurse Practitioners take on additional duties in the diagnosis and treatment of patients, while also providing primary health care, as in diagnosing and treating illnesses and injuries, just as a doctor would. The job of a Nurse Anesthetist is to make sure that the patient's anesthesia is taken before, during, and after surgery.

There are also different requirements needed for each different nursing job. For instance, to become a Certified Nurse Assistant there are physical, educational, and certification requirements. A physical requirement is to have the capabilities of turning, lifting, and assisting patients with movements. Educational requirements will vary from state to state. Training programs generally run from two weeks to two months and include both classroom and supervised clinical hours. Classes may be found in some high schools, vocational schools, or community colleges. When the educational requirement is finished, they become a nursing assistant and must be registered with the state. In addition, the student must also pass the certification examination.

We should all know by now that the better our education is, the higher our salary will be. In 2002, the median annual income of Certified Nurse Assistants was \$21,129. Registered Nurses earned an average of \$52,330 per year. The median expected salary for a typical Licensed Practitioner Nurse/Licensed Vocational Nurse is \$39,212. In 2005, the average annual full-time salary for a Nurse Practitioner was \$74,812. A Nurse Anesthetist's annual salary is averaged at about \$163,467.


**A**ccording to the U.S. Department of Health and Human Services, the demand for nurses will increase to about 810,000 openings! Many current nurses will be retiring soon. Therefore, the need for nurses in our hospitals, schools, businesses, and clinics is crucial. Many should consider this as a career for their future because they help provide health services for the public.

**Sources:** United States Department of Labor, Bureau of Labor Statistics and U.S. News & World Report

**“According to the U.S. Department of Health and Human Services, the demand for nurses will increase to about 810,000 openings!”**







Who I want to be,  
My path is unknown  
My will is free  
A physical therapist may be for me.

A physical therapist enjoys the help they give  
working in different places, with new faces  
Every time they work, they meet new faces  
Although physical therapists need a certain license  
To help those with back pain crisis.

To be a physical therapist you must have a bachelor's degree, but  
preferably a master's, as well as pass the state licensing exams.

Who I want to be,  
Six out of ten hospitals will have work for me  
Physical therapists help to improve mobility  
So those that are in pain can move free.

Who I want to be,  
Full time working 40 hours a week  
The lowest you can make is \$46,510  
And highest is more than \$94,810.

It's not just work with their magic hand  
Teaching how to live life and understand  
Using crutches and wheelchairs,  
To help those with immobile despair.

Helping patients moving at home and work  
Helping with muscle exercises and performance  
With balance and endurance  
A physical therapist is who I want to be.

Who I want to be,  
Helping others when in need  
A careful practice is what a physical therapist leads  
A range of movements is what a physical therapist helps to achieve  
Making all body pain leave  
A physical therapist is who I want to be.

*Physical Therapist*

# WHO I WANT TO BE

by David Martinez

Source: United States Department of Labor, Bureau of Labor Statistics



Jeffrey Vega is an 18-year-old web designer. He learned his web design skills at the YMCA Youth Institute. He attends Long Beach City College and is majoring in computer engineering. Jeffrey learned enough skills to be one of the youngest people to be offered a job at the YMCA of Greater Long Beach.



**Taylor Harding:** What made you want to become a Web Designer?

**Jeffrey Vega:** It truly amazes me because I can make whatever I want! There's no limit at all; you can always tweak up everything. I used to look at different websites and say to myself that I could do it better.



**Harding:** What are the benefits of being a Web Designer?

**Vega:** The biggest benefit is that it opens doors for computer components and technology.

**Harding:** What type of script languages (or different programs used in web design) do you use?

**Vega:** I use a variety of script languages from Adobe Flash to html to php and Dreamweaver.

**Harding:** What is the best part of being a Web Designer?

**Vega:** The ability to work at my own pace.

**Harding:** If you knew someone who wanted to be a Web Designer, what would be your first suggestion for them?

**Vega:** One thing I would tell them is that this job comes with a lot of headaches! Sometimes your website doesn't come out the way you want it to.

**Harding:** What kind of jobs are open to you?

**Vega:** The YMCA, non-profit organizations, freelance jobs, and upcoming clubs. Every business needs a website.

**Harding:** Do you get time limits?

**Vega:** Yes. But most of the time the hours are pretty flexible.

**Harding:** Where do you learn about the new stuff in web design?

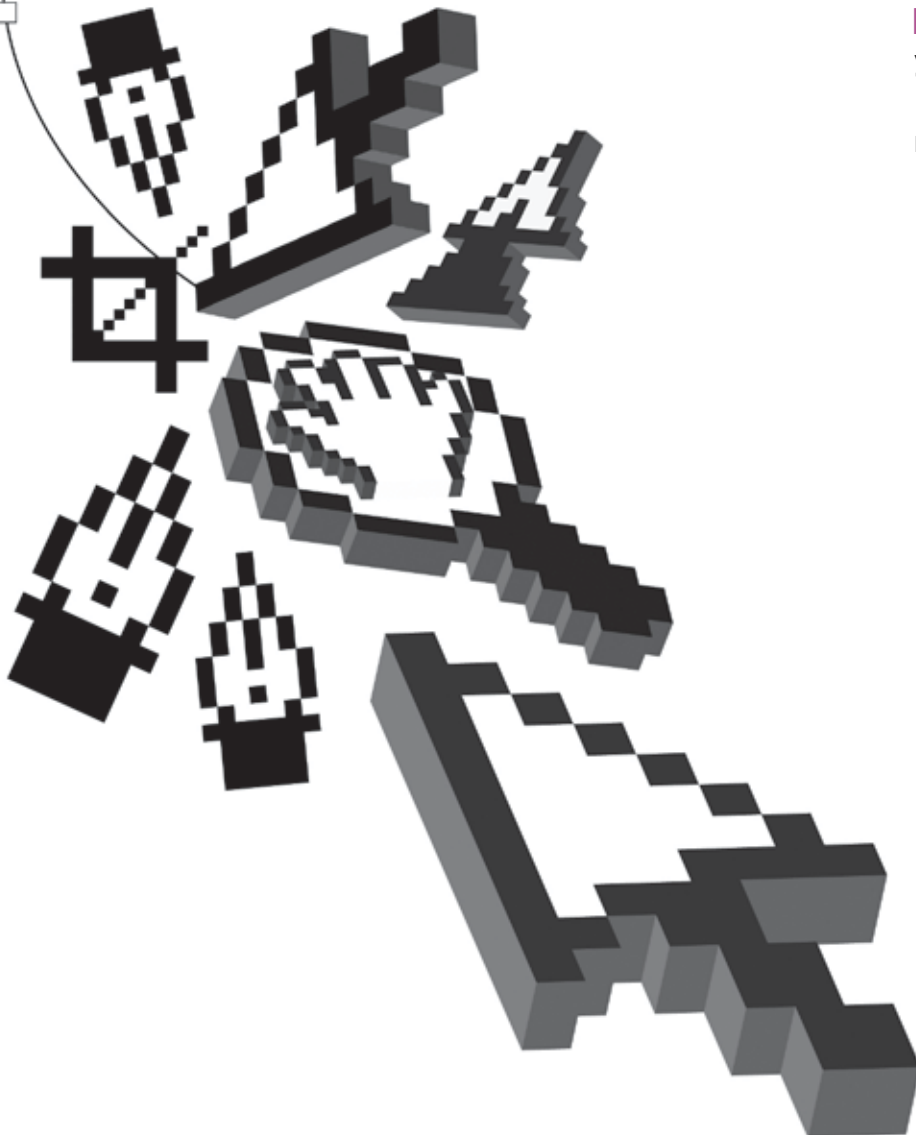
**Vega:** Google! Seriously, everything is on the web.

**Harding:** Do you feel as if this career will make a larger impact on other people?

**Vega:** Yes! It's a very easy job to learn. Most people can start around the ages of 14 to 15 and work their way up!

As a first-year Web Designer, you can make around \$40,000 a year without any college degree. However, a college degree will definitely help you succeed.

Sources: [payscale.com](http://payscale.com) and [monstertrak.com](http://monstertrak.com)







**by Eduardo  
Garcia**

## 3D

3D animation is a process where characters or objects are created as moving images. Rather than traditional flat, or 2D characters, 3D animation images give the impression of being able to move around characters and observe them from all angles, just like real life.

You'll need to have both creativity and attention to detail for a career in 3D animation. 3D animation can be applied as a medium for communication in virtually any industry. Whether you are pursuing a career in architecture, industrial design, medicine or law, learning 3D animation will be an asset for you or your work.

You could use your 3D animation training to work with computer gaming producers, as well as film and television studios. Other opportunities for people with training in 3D animation include commercial production, entertainment, and even education. You'll need to understand basic geometry and physics too. Algebra comes in handy when transforming objects, like moving one object along a curve on a grid. The math is not difficult when working with 3D animation and modeling. If you understand the concepts, you'll do just fine.





## Salary

An animator's salary varies according to industry demand and area of specialization. In general, freelance animators with about two to three years of professional work experience earn about \$500-750 per day. The median salary from a survey of 18 3D Animators, was \$45,003. With one to four years of experience, 132 people in the survey reported that they made an average of \$41,139. Some even reported that they made an average of \$56,702 with five to nine years of experience.

## Schools

Here are just a few schools that offer degrees in Animation:

The Digital Media Arts Department at California State University, Dominguez Hills provides an academic program that gives its students a solid base in the theory and technology skills required for professional careers in the digital media industries that include Animation. The department offers hands-on experience in basic software and hardware tools utilized in digital media production. They also offer a Bachelor of Arts degree in Animation.

The University of California, Los Angeles Animation Workshop has an impressive track record of producing successful animation artists and nurturing innovative storytelling. The Master of Fine Arts degree is awarded on the basis of successful completion of the required courses and critical evaluation of student work. The department expects consistent progress as well as attainment of professional skills.

The goals of the Art Department at California State University, Northridge are establishing and developing an inclusive and balanced program in visual art, which encompasses four areas of study: Art Education, Art History, Studio Art, and Visual Communications. The College of Arts, Media, and Communication at California State University, Northridge offers six unique master's programs. Students can pursue master's degrees in art, music, theatre, communication studies, mass communication, and screenwriting.





# Windsmith

## Working in the Sky

by Maverick Arcena

**S**aving the world is not an everyday career, but one career that engages in saving the world involves working with alternative energy. An alternative energy that is used today is generated by wind turbines. Energy is acquired through wind power instead of burning fossil fuels, which harms the environment by putting out carbon in the air. This concept leads to the idea of global warming, which is explained by the greenhouse effect. The wind turbines need to be monitored every day and the people who monitor these machines are called Windsmiths.

Windsmiths, also known as Electrical Technicians in the field of alternative energy, are required to work outdoors in unfavorable weather conditions and in extreme heights. Windsmiths are susceptible to dangers such as electrical shocks, cuts, and falling from their work station 230 feet above the ground. Therefore there are extreme safety guidelines that need to be followed. Due to the risk factors that come with the career, the salary ranges from \$29,000 to \$67,000 a year.



Many Windsmiths receive their education through an apprenticeship program. The apprenticeship program is a program that consists of both classroom instruction and on-the-job training. To go through the apprenticeship program, students must be 18 years of age and have a high school diploma or a GED. You also need to complete a course in mathematics, science, and electronics. After the four-year apprenticeship program, you need to acquire a license. To obtain a license, you must pass an examination that demonstrates your knowledge of electrical theory, the National Electrical Code, and electric and building codes.

Other qualifications that can boost your resume are being skillful in physical movement, having good hand-eye coordination, being physically fit, having great vision, and having a great career background. You can also boost your resume by having a military background. You can expand your career after years of experience and become a supervisor, project manager, electrical inspector, construction superintendent, or even a business owner. An electrical contractor's license must be acquired to be a business owner in this field. Being multilingual is also a great skill to have when you want to advance your career since there are wind power farms all over the world.

A prediction was made that Windsmiths will be more in demand between the years 2006 to 2016, so get ready! Being a Windsmith is a job that not only offers great pay but also offers an opportunity to help save the world by advancing alternative energy.







“...A career in Broadband is one of the fastest growing careers around the world...”

# CONNECTING OUR WORLD

## B R O A D B A N D

*by Jaime Bigornia*

Broadband is the shorthand version of Broadband Internet access. At first glance, a career in Broadband may seem tedious and even dreary, but believe us when we say it is one of the fastest growing careers around the world. This ever-growing sector needs a strong and abundant workforce as the world becomes more technologically-oriented and widely dependent on the broad spectral use of the Internet.

This field allows people to move away from the aging dial-up modem to more developed broadband technologies, such as fiber optics. Many people frown upon the use of dial-up because it is so slow (it has a limited bit rate of less than 56 kilobits per second) and it requires the full use of a telephone line. You can't even make a phone call while on it.

With the newer Broadband technology, customers are supplied with more than fifty times dial-up's rate, without disrupting telephone use. The standard broadband technologies in most areas are DSL and cable modems. These technologies require a workforce that monitors its correct installation, continuous maintenance, and immediate repairs. In order to be well-equipped for this career, one should study computer networking or computer engineering.

One has to go through years of schooling to acquire the necessary skills to succeed in a Broadband career. In studying computer networking and computer engineering, one will learn how to operate local area networks (LAN) or wide area networks (WAN), how to maintain these mediums of communication, how to oversee the security system for the network, and even how to train others how to use the system.

From being able to find out how to build computers to designing useful software applications, studying computer networking and computer engineering is encouraged if you want to attain a career in one of the many branches of Broadband. It is recommended that you at least get an Associate of Arts degree in computer networking or IT information and systems.

Going through rigorous schooling will yield a pleasant reward. In general, the careers in broadband technology have a starting salary varying from \$55,000 to \$56,201. Keep in mind that as the world population increases, the demand for educated computer technicians will be needed to establish a computer-literate and internet-savvy planet.



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a YOUTH

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IS HITTING THE

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Obtaining a higher degree of education will lead to a wide spectrum of opportunities in any career field.

With that in mind, our generation is in need of environmental lawyers. This is because our demand for consumer goods has had negative consequences on the environment. As global warming grabs the attention of the public, green jobs are increasing; one job that protects the sustainability of the environment is that of the environmental lawyer. Going to trials and hearings with these sorts of lawsuits are the duties of an environmental lawyer. With just an estimated 14,900 environmental lawyers nationwide today, this career is expected to increase from 18 to 25 percent over the next decade.

Becoming an environmental lawyer requires the discipline and determination to graduate from a higher institution. They must first undergo undergraduate work, then attend law school, and finally, pass the bar exam to become a licensed practicing lawyer. Their curriculum mainly focuses on law and science with an addition of economics, ethics, planning, debate, and civic engagement studies. The time it takes to become a licensed practicing lawyer is seven to eight years. The courses that an aspiring environmental lawyer must take include: Administrative Law, Air Pollution Law and Policy, Pollution Control Law, Historic Preservation, Environmental Economics, Environmental Health Law, Environmental Justice, Federal Natural Resource Law, Risk Assessment and Regulation, and Wildlife and Endangered Species Law. It is also recommended to continue education after one receives their license. This is helpful because it allows individuals involved in environmental law to be up to date on current environmental issues and laws that have been amended. Salary depends on the motive you are working for. An environmental lawyer for the public interest (non-profit organizations) makes \$40,000 a year, while working for the government earns you an average of \$46,000 a year. Another appeal of this job, besides its financial aspects, is the benefits of improving communication skills, gaining self-confidence, and acquiring another perspective of the world.

This niche has been around since the 1970's, and it is becoming a job that does more than sue people. It establishes justice for land use, pollution control, protection of the natural environment, and energy efficiency. An anonymous environmental lawyer's overall thought about their career was that of, "changing the world in a good way. Not just protecting the world, but changing it. It makes you feel like the investment you made in your education is really paying off."





**“AS GLOBAL WARMING  
GRABS THE ATTENTION  
OF THE PUBLIC, GREEN  
JOBS ARE INCREASING...”**

# Defending the Environment

by Kristelle Batucal

ILLUSTRATIONS BY SOPEA KRY





# UNDER THE SEA

by Vigneareay Phriang



Even though fish smell bad, and I don't really like boat rides, I've always been interested in marine biology. I find it exciting because I am adventurous, and easily captivated by the strange and wonderful creatures in the ocean. The way animals find food, swim, and sleep is fascinating. There is always something new to learn and experience when you are a marine biologist.

The job of a marine biologist can vary. Some work in managing marine animals and some are concerned with protecting the wildlife. A marine biologist studies, observes, protects, or manages marine organisms. Some marine biologists find bioactive drugs that can cure human diseases, while others make a career in environmental conservation, water management, environmental consultancies (which is creating solutions to environmental challenges), and fisheries protection. There is so much a marine biologist can do with the education and experience they get while earning a marine science degree.

California State University, Long Beach (CSULB), the University of California, Los Angeles (UCLA), and the University of California, Santa Barbara (UCSB), each offer a major in marine biology. CSULB's website says that it offers a bachelor's degree and the opportunity to study many organisms, and processes in the field and in the lab. They have three huge research vessels and a marine lab on campus for teaching and research. Becoming a marine biologist often requires one to have marine lab experience and a diving certification. It's also a good idea to keep in shape because swimming and being in the water are required.



Marine biologists have a magnificent job. The average salary is between \$40,000 and \$70,000. Marine biologists are people who are committed and passionate about the ocean. Therefore, yearly salary isn't what keeps them motivated to study the ocean life. What keeps them working in this field is the fact that their job has beautiful, mysterious, varieties of life in the sea that holds new things to discover. Another thing is that marine organisms give us clues about our earth's past, the history of life, and even our own bodies. I like marine biology because it is full of wonder.

You should pursue a career in marine biology because it is strange and wonderful. The things that make it amazing are the fascinating things you study. The things you study about mostly are: (1) the structure, function, and ecology of the plants and animals, (2) the basic science of the marine environment, (3) the challenges the organisms go through, (4) and the positive or negative interactions between humans and marine organisms. Overall, many things make the world of marine biology interesting so if you live near the ocean,

**why not consider a career in marine biology?**



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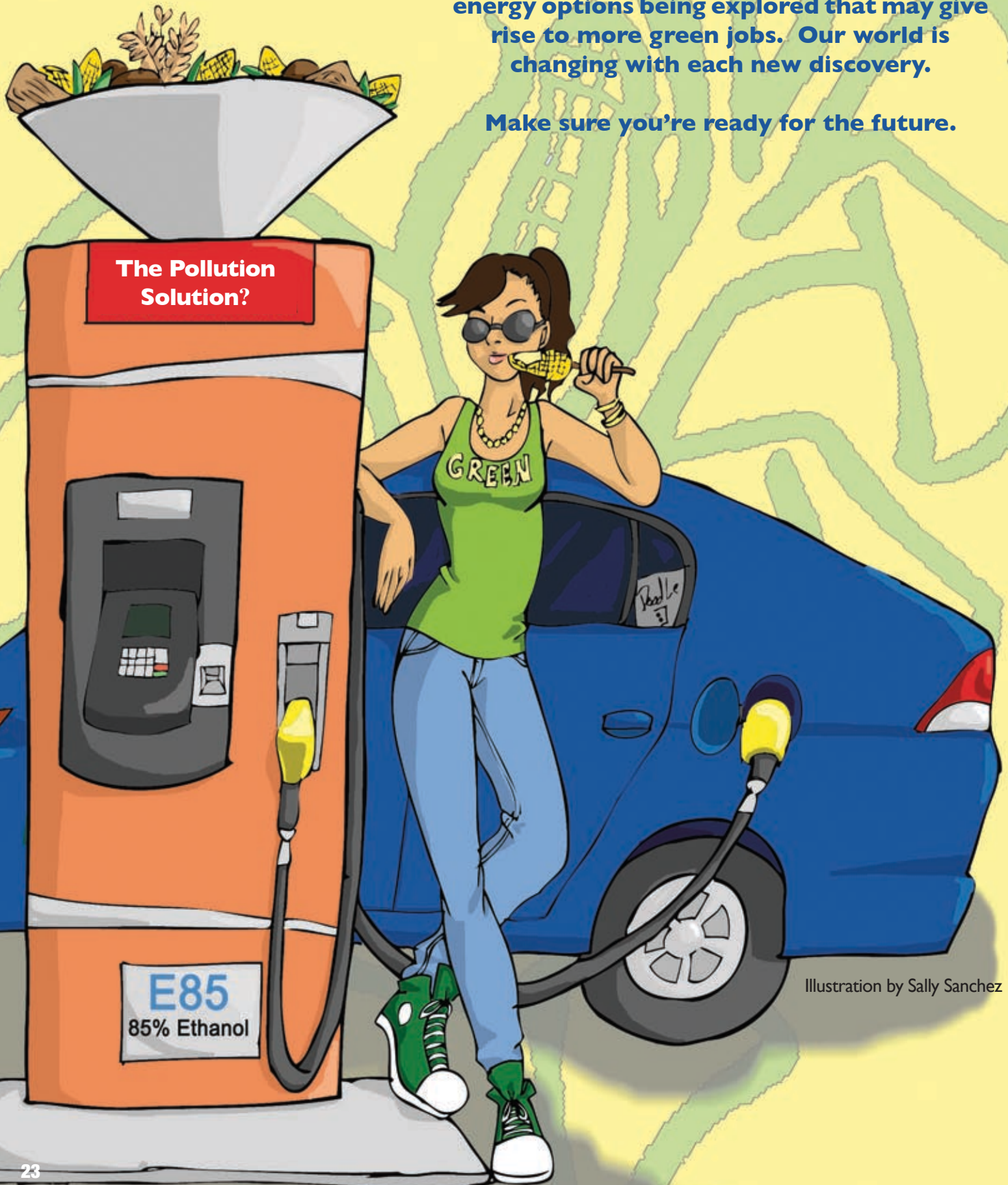


Illustration by Sally Sanchez





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Sound Engineering might be the music industry job for you. When you watch TV, go to the movies, or listen to music, you probably don't realize how much work is put into a single piece of audio that is done by someone that works as a sound engineer. A sound engineer is someone in charge of some parts of the sound at live shows, conferences, speeches, and several other projects that require the projection of sound for the audience. It is someone who can manipulate sound through mechanical and digital engineering.

There is a wide range of work with sound engineers, such as audio, video, broadcast, and radio. Sound engineers working in the radio industry repair equipment and maintain communication systems. Audio and video (movies) engineers operate the microphones, speakers, video screens, monitors, and the equipment. Broadcasting engineers (television) work with fixing the range of sounds.

# THE SOUND OF MY LIFE

**by Prisma Bracho**



It is said that the field of sound engineering is expected to grow by approximately 16 percent by 2016. Sound engineers are mostly employees of radio stations, television networks, recording studios, concert promoters or movie productions.

To be a sound engineer, several things are required. You must know how to record, edit, manipulate, mix and master sound. In addition, you must know how to read music and other audio on recording media, and how to use recording equipment. Sound engineers require recording equipment such as microphones, amplifiers, audio lines, monitors and mixing boards to control several sounds done by a band on stage. Before all that can happen, you should attend an audio engineering program that may be offered at a technical school or community college, such as El Camino College's Music Department. While a degree is not necessary, it does help to have one.

Licensing is not required for a sound engineer, but there are certificates that recognize experience and to obtain these certificates, exams must be taken. Although it is not needed, it is best to have a degree in acoustics or electronics, or physical or mechanical engineering.

There are several ways to be prepared for a sound engineering job. One of them is by attending technical school, community college, or college training in broadcast technology, computer networking or electronics. It usually takes up to a year of training to complete and learn everything that is required to be a professional sound engineer. A high school diploma is helpful when going into the industry. Another way to prepare for the job is to work as an intern at places such as a commercial studio.

Sound engineering also requires you to have different types of skills. A sound engineer has to have communication skills, a cooperative attitude, patience and perseverance in order to work under stressful circumstances. Sound engineers must also be creative and love music. They must be capable of achieving the vision of others through their work in audio.

It doesn't matter how well a band can play, what matters the most is if the audience can hear it enough to appreciate it. Musicians have ideas about how their group should sound and the sound engineer should be able to transfer their ideas into actual sound. Despite having the pressure of making the band sound great, sound engineers get to enjoy themselves and have fun while they do their job.

Another reward is earning money. As you gain more experience in the business, your salary increases. Many sound engineers with years of experience working in the industry will earn anywhere from \$30,000 to \$60,000 or more annually. Working as a sound engineer has a number of responsibilities but brings excellent rewards in the end.

So next time you are watching TV, think about the people that made it possible for you to be able to enjoy the sounds that you are able to appreciate.





# Innovative Improvements

by Lizeth Benitez

There are many careers available in advanced manufacturing. In this field, the industrial engineer manages the method of production in an industry. Industrial engineers work in a variety of businesses. Their job is to help companies be more efficient and reduce costs. They handle the design and implementation of integrated systems of equipment. Based on the principals of engineering, industrial engineers evaluate problems and situations to find the best solution. The unique combination of skills an industrial engineer possesses can be used in many working environments.

Industrial engineers are responsible for deciding how a company should utilize its resources. Most industrial engineers are consultants or internal managers. While this career is about solving problems and improving a company, it also requires an individual to quickly become familiarized with the limitations that exist within the company. Because an industrial engineer must communicate their observations and ideas to the company, industrial engineers must also be charming, persuasive, and tactful in what they say. In addition, an industrial engineer must take into consideration all the constraints in order to maximize a company's profit and productivity. This means having strong decision-making skills.





Computer skills, statistics, quality control, psychology, and billing can be useful in the work of an industrial engineer. For those who wish to obtain a job as an industrial engineer, they must obtain a bachelor's degree. Depending on the college or university, obtaining a bachelor's can take four to five years. A master's or a doctorate degree commands more respect in the field. The median annual income of industrial engineers is \$68,620. A starting industrial engineer with just a bachelor's degree makes an average salary of \$55,000. With a master's degree, an industrial engineer makes an average of \$77,364.

Furthermore, students in high school can take classes that will prepare them for a career in industrial engineering. Since math is a major part of industrial engineering, it is advised to take math and science classes that will strengthen their skills in those areas. Taking the SAT and maintaining good grades in school will help students get into good universities. Students can also take summer internships or speak to people in that profession to learn more about industrial engineering and associated careers. By becoming more familiar with what it takes to become an industrial engineer, students will be more successful in determining if they are interested in pursuing this career.

While 70% of industrial engineers work in manufacturing, industrial engineers have a range of career fields available to them. Industrial engineers can work in retail, healthcare, banking, aerospace systems, research, government jobs, and other areas. With so much available, it is easy to see why industrial engineers are the link between the business world and the engineering field.

People who enjoy knowing how things work and thinking of ways to improve them would benefit from this flexible career. By collecting data and analyzing it, industrial engineers are able to assess a company's problems. In this way, industrial engineers can save companies time and money. Students good at problem solving, science, and system analysis should consider pursuing a career in industrial engineering.



**"All engineers should be curious, analytical, and imaginative."**

# **THIS IS ROCKET**

# **SCIENCE**

**by Shirley Sim**

**A**lthough the lives of teens are mundane, the career opportunities—teacher, doctor, manager, lawyer—are nonstop. However, the growing field of engineering, more specifically aerospace engineering, can bring about an exciting world of applied mathematics and aerodynamics.

Aerospace engineers are responsible for producing machines like airplanes, testing aircrafts, developing missile systems, and so forth. While this may seem like lots of fun, it is also complex, rigorous and time consuming. Students who major in this field graduate with a concrete understanding of the fundamentals in space flight. Graduates are also able to research, design and analyze the machines of the future.

For most entry-level jobs, a bachelor's degree in engineering is required along with a license for those who will offer their services directly to the public. In order to earn the license, graduates must have earned their degree from an accredited engineering program, have four years of work experience, and successfully complete a state examination. Recent graduates are encouraged to take the first part of the exam immediately after graduation. Upon passing the first part of the exam, students are encouraged to find work and gain work experience. After one receives a wider array of work experience, one can take the second part of the exam. The two-part exam is merely a way for engineers to demonstrate their competence in any sector of engineering. Nonetheless, many engineers continue their pursuit of higher education, which is crucial as technology continues to evolve.

Furthermore, the aerospace industry is the second largest sector in the United States and employs the most engineers. Those who choose to major in this field will be able to find work with agencies such as the National Aeronautics and Space Administration (NASA), which is responsible for the United States' space program.

In addition, salaries for aerospace engineers are among the highest of all college graduates. In 2002, the median of annual earnings was roughly \$72,750, while the lowest 10 percent earned about \$49,640. Promising opportunities for aerospace engineers are projected to occur in 2012 because degrees for this field have significantly decreased due to the lack of employment.

All engineers should be curious, analytical, and imaginative. They should also be able to work well in a team. Communication skills—oral and written—are critical as engineers often interact with specialists outside of the field of engineering.

## **FUN FACTS:**

- **In 2006, engineers held about 1.4 million jobs**
- **Local, state, and federal governments employ about 12 percent of engineers**
- **Aerospace engineers make up roughly 49% of the engineering sector**
- **Engineering is expected to grow roughly 11 percent between 2006 – 2016**
- **New technologies that will be used on aircrafts will increase the demand for aerospace engineers**



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### **Long Beach City College Liberal Arts Campus**

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[www.lbcc.edu](http://www.lbcc.edu)

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The page features several fashion sketches. At the top, there are two large sketches of clothing: a red long-sleeved top with a wide belt and a grey corset-style top with red lacing. Below these, on the left, are two small sketches of full-body outfits. In the center, there are two long, thin sketches of legs wearing high boots. At the bottom right, there are two sketches of high-heeled sandals. A thick red horizontal bar spans the width of the page, containing the title and author information.

**F**ashion design is an applied art dedicated to clothing and lifestyle accessories. Fashion designers bring combinations of line, proportion, color and texture together to show creativity. Fashion designers have a big challenge because their design has to influence others to buy it; otherwise they are not doing a great job. Most fashion designers work for apparel manufacturers. They create designs for men, women and children for the mass market.

# FASHIONISTA

by Zoila Fabian  
Illustrations by Joana Muriel



**W**ell-known designer brands are successful because their clothing is advertised in magazines. This is one of the main goals of a fashion designer because their clothing can be shown in a popular publication. Their brands have a big opportunity to keep making clothing that others would want to buy as well as having a highly visible fashion brand.

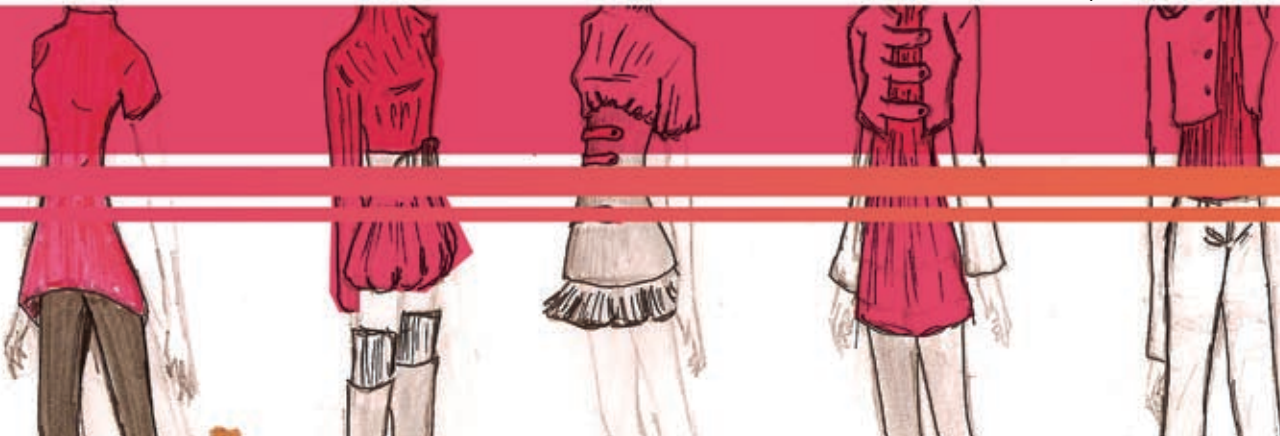
If you love fashion, there's more than one way to get a job in the industry. Whether your skills are best suited for fashion design, or for business merchandising and marketing, you'll need many skills and tons of creativity. The main skills needed are drawing and showing the imagination that you want head designers, costume designers, and anyone who is interested in your work to see. The designer needs to communicate through their art. Being in the fashion industry is not an easy job because you need to work full time and be dedicated to your job. A designer needs to know how to work with others, use technology, and be a responsible person.

**M**any fashion designers display their skills in a fashion show to promote their clothing. A model walks down the runway to showcase the design of the clothing the fashion designer made. This event can make you a great fashion designer because people start to judge your clothing. If the judges like the clothing, then you can make more clothing for others. It is a big chance for other designers who would like to work with you. Plus the media can notice you. In addition, there are three main categories of a fashion designer, such as, Haute Couture (high fashion), Ready-to-Wear, and Mass Market. These categories are important because they lead to big success. Depending on which category of fashion, fashion designers can earn between \$13,440 and \$93,000. The U.S. Bureau of Labor statistics reported an average annual income of \$67,370 in 2005. Median annual earning for fashion designers is \$48,530 to \$52,860.

**T**here are many well-known design schools that can really help you become a fashion designer, such as Otis College of Art and Design, the International Academy of Design and Technology, the Rhode Island School of Design, and Art Center College of Design.

When beginning a fashion design career, you should expect to work at an entry-level position before you can work in the job you really want. Make yourself employable, put together an appealing portfolio, and gain industry experience. The most important part of being a fashion designer is having a portfolio that demonstrates your fashion design ability and creativity. A fashion designer should not be afraid to start small because all they need is a goal to achieve their dream job.

Sources: [princeton review careers](http://princetonreview.com/careers) and [stylecareer.com](http://stylecareer.com)





# What Do Vets Do?

Most veterinarians provide medical care for dogs, cats, farm animals, zoo animals and even animals that live in an aquarium. They're doctors who treat and diagnose animals as well as perform x-rays and even surgery. Some Veterinarians are researchers who have helped in efforts to suppress malaria and yellow fever in the United States.

## Competition & Salary

To become a veterinarian you must earn a Doctorate of Veterinary Medicine (DVM). The median salary for new graduates in 2008 was \$48,328. Vets can work in places other than Animal hospitals to make money. The median salary for small animal exclusive veterinarians who do not own their own practice ranges from \$70,000 to \$91,000. Owning a practice can earn a vet a median salary of \$55,000 to \$151,000, depending on experience and the type of practice owned.

## Becoming a Veterinarian:

If you are planning on becoming a veterinarian, you first need to complete all courses in biology, chemistry, mathematics, and physics in high school.

Then you need to be exposed to this career. Many animal veterinarians will let a high school or college student follow them through their workday. Small animal vets are willing to take volunteers. You may have to sign a release for volunteering because it can be dangerous.

Most university veterinarian programs expect or require veterinary experience and animal experience. Animal experience can range from working on farms, kennels, or veterinary clinics. Veterinary experience can be attained observing veterinarians or working in veterinary facilities.

Most college students have a combined veterinary and animal experience of at least 500 hours. In college, you need to complete one year of general chemistry, one year of organic chemistry, one year of biology, one year of physics, and at least college trigonometry. Veterinary school is tough, physically and mentally demanding. A student aspiring to become a veterinarian should be able to handle a rigorous science curriculum before entry into a professional program. Like doctors, many newly graduated vets are in debt because of the high cost of veterinary medical education. If you want to become a veterinarian, you have to have the determination to do it. Then your loans and tests will all be worth it.





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# Comic of a Comic Book Artist

I've always had a passion for comic book art, even as a child.



I focused a lot of my years enhancing my graphic design skills



It became more than just drawing stick figures. You have to plan for your dreams and map out your life...



Kind of what I plan on doing.



Most comic book artists have portfolios. It is a presentation of your work.



It takes preparation and originality not just for comics but also for any kind of artistic field.



In college I had to take courses like design, sketching, animation, creative writing and even 3-D art.



All classes are important to even be considered for a job. Publishers will be impressed if you have different talents and experiences.



First, start off in a smaller publication. It is the easiest way to have doors open.



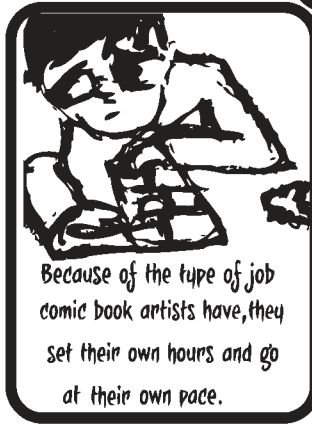
You may have questions about payment and salary. We get paid based on speed. An average penciler receives \$250 per page.



Contracts are very important. You sign contracts and they are law binding.

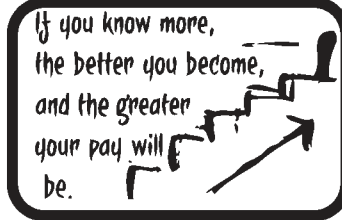


Because of the type of job comic book artists have, they set their own hours and go at their own pace.



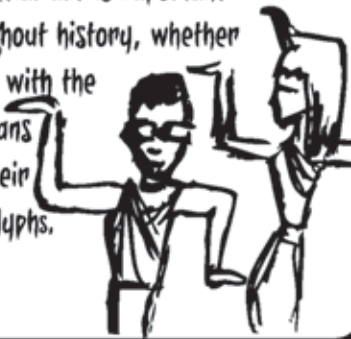
If you know more, the better you become, and the greater your pay will be.

Comic book art is also known as sequential art. Cave paintings are also examples of sequential art. We are able to see how humans survived and communicated with each other.





Sequential art is important throughout history, whether it was with the Egyptians and their hieroglyphs.



or the Greeks and Romans carving their gods in the stone walls, leaving marks of the past.

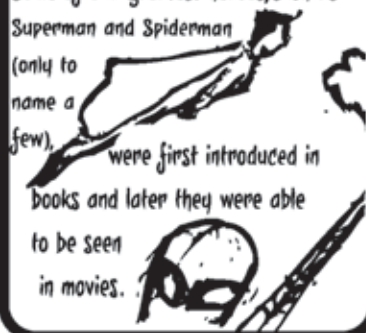


Because of history, artists are given more open doors and more opportunities by just painting pictures.



It's Simple. Anyone can paint a picture.

Some of our greatest heroes, such as Superman and Spiderman (only to name a few), were first introduced in books and later they were able to be seen in movies.



Then the artists were able to define the characters and bring them to life



Creating comics is not just about telling a story line or putting out a story to tell an audience.



Superman conveyed stories about human nature and the importance of mankind.



It is about having a passion for creating something that can be remembered.



It takes a quick hand...



and a patient mind to reach a common goal.

BY: Dasine'e Norman

ART History



Art is an expression of culture and historic events.



Be proud of your work, because art can teach tolerance and other life lessons.




Being able to have skills in each area of art gives you a better chance of getting a good job and reliable clientele.



While we look at cave paintings to see into the past, civilizations in the future will look at our lives and appreciate our culture by the stories we tell.

Source: monstetrak.com





The sun shimmered on that morning, its rays glowing radiantly, lighting up the world. But I could feel myself getting dehydrated as I was walking along the sidewalk. I searched through my purse, hoping that I would find a bottle of sparkling water. There was nothing but a pink wallet, make up and two green apples. I pulled out an apple and took a bite. Mmm, how delicious the juice tasted on my parched tongue.

I then wondered, what made this apple taste so fresh? What exactly did the farmers do to make it this juicy? Suddenly a breeze blew a piece of paper into my face. I was about to throw it away when something caught my attention: **“TORRANCE FARMERS MARKET; THE BEST FRESH FRUIT YOU WILL EVER FIND!”**

It was time to do something interesting and find out how farmers make apples taste so refreshing. And so a journey to the farmers market on Saturday became my number one goal.

There were multiple booths at the Torrance Farmers Market selling a variety of fruits that came from small farms: people from different ethnicities were walking about; mothers trying to keep their small children from running into tables and knocking down the fruits; couples wandering around enjoying a perfect sunny day with each other; and vendors giving out samples of the mixture of colorful fruit they had to offer.

Right before my eyes, I saw a lady with long silky black hair, wearing a flowered summer dress giving out samples of neatly cut pieces of bright green apples. I carefully picked up the piece and my mouth watered up when I tasted how deliciously sour the apple was. I asked the lady, “How do you get your apples to taste this delicious?”

# A Fresh Taste at the **Farmers** **Market** by Melissa Chavez



"Well," she replied, "we only use natural resources, no added chemicals or pesticides, and our soil is rich and high quality. Different farms treat their fruits differently."

"Very interesting, thank you."

"You're welcome," the lady said "and just keep in mind, every farm has its own flavor."

As I began walking, I thought, "its own flavor? What did she mean by that?" An information cart with colorful brochures caught my eyes. One was bright green and the title was "Farms in Southern California." I took the brochure and sat down on a bench next to a tree.

Wow, owning a farm must be very complicated. Farmers need about 500 acres of land depending on what they grow. Farms need 50 to 60 people constantly working on the farm in order to make it function. I also found out that the people who sell in this farmers market also sell all around Los Angeles and Orange County, and some go all over Southern California. It's strange how farmers work most of their time and go to a lot of markets to sell their fruit, but they still struggle to make enough money.

I walked back to the cart and got another brochure. While walking towards the bench I flipped the brochure open and started to read it. It talked about all the farms and farmers that come together to make this farmers market possible. A piece of information that caught my attention was that most farms have been established for about 60 years! Also, most of the farms that come to sell at the farmers market are a part of a family farm. It must be a great experience to work and live on a farm with your family. At that moment, something hit me. I put the brochure in my pocket and stayed pensive for a couple of minutes. What if I was a farmer? What would be some of the jobs that would have to be done? I got off the bench to go back to ask the black-haired lady another question. I turned around rapidly, almost running over a soccer ball that some kids were playing with and walked towards the lady's booth.

**"I...got a sample of the green apples he was displaying. Wow, that apple was magnificent."**

Melissa Chavez enjoys a green apple from the Torrance Farmers Market.



"Excuse me, I'm sorry to bother you, but I would like to know, what are the different jobs available on a farm?"

She responded, "Oh, there are many but some of them are: prepping the soil, fertilizing, weed chopping, tractor driving, picking the fruit and so much more!"

"And how much does a farmer earn?"

Then she said, "About \$50,000 a year."

"Wow, thank you."

I walked away from her thinking how much fun it would be to work on a farm and what a magnificent experience that would be!

I started walking towards the bus stop as thoughts ran through my mind. I couldn't help but to think about how hard all these people work on the farm to make a living. Right before I was about to leave, I saw a short man selling green apples. These apples were smaller than the one that I had earlier. My mouth started to get watery again, so I walked towards him and got a sample of the green apples he was displaying. Wow, that apple was magnificent. It tasted so fresh and juicy, however, it wasn't as sour as the first one. I then realized what the black-haired lady meant when she said, "every farm has its own flavor." They all have their own flavor because every farm has its own way of growing the fruit. They use different kinds of soil and fertilizer, and depending on where the farm is located, the weather is going to be different. Some farms get more rain than others and some get more sunlight than others. There isn't just one secret for how to grow the perfect apple, there are many. The clouds gently covered the sun's rays little by little as I walked towards my home. Astonished by the outcome of what I had learned that day, I pulled out the last apple and ate it.



# FIND A JOB

## Top 10 Things You Need to Know!

- 10) Learn what a resume is and write one; you should always target your resume towards the job you are applying for.
- 9) When you go for a job interview wear the nicest clothes you have, and please note, your new pair of Air Jordan's does not count as dress shoes.
- 8) Create a voice mail message that sounds like you want a job and hope an employer is calling you.
- 7) Get an appropriate email address. No Princesses of, or King of. Just use your name and if your name is not available, throw in some "." or "\_".
- 6) Practice your interviewing skills before the big day. Kobe Bryant doesn't show up to the first game of the season without practicing, so why would you want to show up for your big game without practicing?
- 5) Be creative in finding job leads. Don't just sit around and wait for it to drop in your lap; look online, visit the Youth Opportunity Center, and check out your high school career center.
- 4) Network, Network, Network. If you want to work for a particular company set up a time to meet with someone from that company and talk with them about what it takes to get your foot in the door. When you are out and about and see a place where you would like to work, ask someone there for a business card.
- 3) So you are cool and have a MySpace and FaceBook page, that's great! Just remember that anything you put on the Internet can be traced and looked at by an employer.
- 2) Get experience, education, and training! Take advantage of any and all free training programs, internship programs, or job shadowing opportunities that you can find. Any experience, whether paid or unpaid, is better than no experience.
- 1) Smile! Many employers have stated that they have hired less qualified candidates because they smiled, were polite, and seemed friendlier in the interview. For many employers the bottom line is the dollar sign and they can't take the risk of hiring someone whose attitude may scare off potential customers.



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# PATH

Giovanni Vitela makes his way to the next class.

*by Alexis Walker*

School is important  
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And you'll be in despair.  
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Become friends with your books  
Make sure the lesson  
Is not misunderstood.  
Always remember  
To help your teacher out  
When it's time for references  
They'll write one for you without a doubt.  
Apply to many colleges  
Have a wide variety  
When you get accepted  
Your parents will be happy.  
When you're in college  
Fun things will come your way  
But make sure you know the distinction  
Between work and play.

There are ways to get this far  
Ways to help you pay  
If your parents can't help out  
There's always Financial Aid.  
But don't be a fool  
This money is only a loan  
But there are government grants  
That is your money to own.  
Once you get your diploma  
There's a sense of satisfaction  
Because you are ready to enter  
The career world and take action.  
When you're looking for a job  
It will be easy with your knowledge  
Compared to a person  
Who failed to go to college.



# Long Beach Job Corps Center

Invest in your FUTURE!

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**Career Technical Education**

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Facilities Maintenance • Cement Masonry • Painting

Telecommunications • Health Occupations • Automotive

## FREE TRAINING!

Check out our new website!!!

<http://longbeach.jobcorps.gov>





## Youth Opportunity Center

Serving youth ages 14 to 24 in  
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# MEANINGFUL CAREERS FOR FUTURE LEADERS

Pacific Gateway  
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START  
WITH  
THE FIRST  
JOB.**



*Equal Opportunity Employer/Program. Auxiliary aids and services available upon request to individuals with disabilities.  
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